

## Author Index

- Agarwal, V.R. and Sato, S.M.  
Retinoic acid affects central nervous system development of *Xenopus* by changing cell fate (44) 167
- Befort, J.-J., see Meyer, D. (44) 109  
Befort, N., see Meyer, D. (44) 109  
Boedigheimer, M., Bryant, P. and Laughon, A.  
Expanded, a negative regulator of cell proliferation in *Drosophila*, shows homology to the NF2 tumor suppressor (44) 83  
Breitman, M.L., see Raju, K. (44) 51  
Bryant, P., see Boedigheimer, M. (44) 83  
Bryant, P.J., see Woods, D.F. (44) 85  
Bryce, D.M., see Raju, K. (44) 51  
Busson, D., see Therond, P. (44) 65
- Danker, K., Hacke, H., Ramos, J., DeSimone, D. and Wedlich, D.  
V<sup>+</sup>-Fibronectin expression and localization prior to gastrulation in *Xenopus laevis* embryos (44) 155  
Darnell, J.E., see Ruiz i Altaba, A. (44) 91  
DeSimone, D., see Danker, K. (44) 155  
Deutsch, A., Dress, A. and Rensing, L.  
Formation of morphological differentiation patterns in the ascomycete *Neurospora crassa* (44) 17  
Deutsch, J., see Laval, M. (44) 123  
Dietrich, S., Schubert, F.R. and Gruss, P.  
Altered *Pax* gene expression in murine notochord mutants: the notochord is required to initiate and maintain ventral identity in the somite (44) 189  
Doe, C.Q., see Oliver, G. (44) 3  
Dress, A., see Deutsch, A. (44) 17  
Dubé, I.D., see Raju, K. (44) 51
- Geisendorf, S., see Oliver, G. (44) 3  
Grawe, F., see Wodarz, A. (44) 175  
Gruss, P., see Dietrich, S. (44) 189  
Gruss, P., see Oliver, G. (44) 3  
Guillemet, E., see Therond, P. (44) 65
- Hacke, H., see Danker, K. (44) 155  
Hescheler, J., see Maltsev, V.A. (44) 41
- Jessell, T.M., see Ruiz i Altaba, A. (44) 91
- Kamel-Reid, S., see Raju, K. (44) 51  
Knust, E., see Wodarz, A. (44) 175
- Lamour-Isnard, C., see Therond, P. (44) 65  
Laughon, A., see Boedigheimer, M. (44) 83  
Laval, M., Pourrain, F., Deutsch, J. and Lepesant, J.-A.  
In vivo functional characterization of an ecdysone response enhancer in the proximal upstream region of the *Fbp1* gene of *D. melanogaster* (44) 123  
Lee, H., see Ramachandran, R.K. (44) 33  
Lepesant, J.-A., see Laval, M. (44) 123  
Limbourg-Bouchon, B., see Therond, P. (44) 65
- Maltsev, V.A., Rohwedel, J., Hescheler, J. and Wobus, A.M.  
Embryonic stem cells differentiate in vitro into cardiomyocytes representing sinusnodal, atrial and ventricular cell types (44) 41  
Mavilio, F., see Moroni, M.C. (44) 139  
Meyer, D., Wolff, C.-M., Stiegler, P., Sénan, F., Befort, N., Befort, J.-J. and Remy, P.  
*Xl-fli*, the *Xenopus* homologue of the *fli-1* gene, is expressed during embryogenesis in a restricted pattern evocative of neural crest cell distribution (44) 109  
Moroni, M.C., Vigano, M.A. and Mavilio, F.  
Regulation of the human *HOXD4* gene by retinoids (44) 139
- Oliver, G., Sosa-Pineda, B., Geisendorf, S., Spana, E.P., Doe, C.Q. and Gruss, P.  
*Prox 1*, a *prospero*-related homeobox gene expressed during mouse development (44) 3
- Pourrain, F., see Laval, M. (44) 123  
Preat, T., see Therond, P. (44) 65  
Prezioso, V.R., see Ruiz i Altaba, A. (44) 91
- Raju, K., Tang, S., Dubé, I.D., Kamel-Reid, S., Bryce, D.M. and Breitman, M.L.  
Characterization and developmental expression of *Tlx-1*, the murine homolog of *HOX11* (44) 51  
Ramachandran, R.K., Seid, C.A., Lee, H. and Tomlinson, C.R.  
PDGF-BB and TGF- $\alpha$  rescue gastrulation, spiculogenesis, and *LpS1* expression in collagen-disrupted embryos of the sea urchin genus *Lytechinus* (44) 33  
Ramos, J., see Danker, K. (44) 155  
Remy, P., see Meyer, D. (44) 109  
Rensing, L., see Deutsch, A. (44) 17  
Rohwedel, J., see Maltsev, V.A. (44) 41  
Ruiz i Altaba, A., Prezioso, V.R., Darnell, J.E. and Jessell, T.M.  
Sequential expression of HNF-3 $\beta$  and HNF-3 $\alpha$  by embryonic organizing centers: the dorsal lip/node, notochord and floor plate (44) 91
- Sato, S.M., see Agarwal, V.R. (44) 167  
Schubert, F.R., see Dietrich, S. (44) 189  
Seid, C.A., see Ramachandran, R.K. (44) 33  
Sénan, F., see Meyer, D. (44) 109  
Sosa-Pineda, B., see Oliver, G. (44) 3  
Spana, E.P., see Oliver, G. (44) 3  
Stiegler, P., see Meyer, D. (44) 109
- Tang, S., see Raju, K. (44) 51  
Terracol, R., see Therond, P. (44) 65  
Therond, P., Busson, D., Guillemet, E., Limbourg-Bouchon, B., Preat, T., Terracol, R., Tricoire, H. and Lamour-Isnard, C.  
Molecular organisation and expression pattern of the segment polarity gene *fused* of *Drosophila melanogaster* (44) 65  
Tomlinson, C.R., see Ramachandran, R.K. (44) 33  
Tricoire, H., see Therond, P. (44) 65
- Vigano, M.A., see Moroni, M.C. (44) 139
- Wedlich, D., see Danker, K. (44) 155  
Wobus, A.M., see Maltsev, V.A. (44) 41

Wodarz, A., Grawe, F. and Knust, E.

CRUMBS is involved in the control of apical protein targeting during *Drosophila* epithelial development (44) 175

Wolff, C.-M., see Meyer, D. (44) 109

Woods, D.F. and Bryant, P.J.

ZO-1, DlgA and PSD-95/SAP90: homologous proteins in tight, septate and synaptic cell junctions (44) 85

## Subject Index

### Action potential

Cardiomyocyte; Embryonic stem cell differentiation; Cardiac-specific gene expression (Maltsev, V.A. (44) 41)

### Adhesion

*Xenopus* development; Fibronectin V-region (Danker, K. (44) 155)

### Apical–basal polarity

Epithelia; EGF-like protein; *Drosophila*; Protein targeting (Wodarz, A. (44) 175)

### Brachyury curtailed

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

### Brain

Retinoic acid; *Xenopus*; *XIPOU 1* (Agarwal, V.R. (44) 167)

### Cardiac-specific gene expression

Cardiomyocyte; Embryonic stem cell differentiation; Action potential (Maltsev, V.A. (44) 41)

### Cardiomyocyte

Embryonic stem cell differentiation; Cardiac-specific gene expression; Action potential (Maltsev, V.A. (44) 41)

### Cell interaction

*Drosophila*; *fused*; Protein kinase; Segment polarity gene (Therond, P. (44) 65)

### Cellular automaton

Differentiation process; Hypha; Experimental condition; Computer simulation; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

### Central nervous system

Prox 1; *Prospero*; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

### Computer simulation

Differentiation process; Hypha; Experimental condition; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

### Cyclic AMP

Differentiation process; Hypha; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Morphogen (Deutsch, A. (44) 17)

### Danforth's short tail

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Pintail; Truncate (Dietrich, S. (44) 189)

### Differentiation process

Hypha; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

### *D. melanogaster*

20-Hydroxyecdysone; Ecdysone response element; Larval fat body (Laval, M. (44) 123)

### Dorsal lip

Floor plate; HNF-3 $\alpha$ ; HNF-3 $\beta$ ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

### Dorsoventral patterning

Pax-1; Pax-3; T gene; Notochord; Somite; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

### *Drosophila*

Prox 1; *Prospero*; Central nervous system; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

Cell interaction; *fused*; Protein kinase; Segment polarity gene (Therond, P. (44) 65)

Mammal; Imaginal disc; Tumor suppressor; *expanded* gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

Epithelia; Apical–basal polarity; EGF-like protein; Protein targeting (Wodarz, A. (44) 175)

### Ecdysone response element

20-Hydroxyecdysone; *D. melanogaster*; Larval fat body (Laval, M. (44) 123)

### EGF-like protein

Epithelia; Apical–basal polarity; *Drosophila*; Protein targeting (Wodarz, A. (44) 175)

### Embryonic stem cell differentiation

Cardiomyocyte; Cardiac-specific gene expression; Action potential (Maltsev, V.A. (44) 41)

### Epithelia

Apical–basal polarity; EGF-like protein; *Drosophila*; Protein targeting (Wodarz, A. (44) 175)

### *expanded* gene

*Drosophila*; Mammal; Imaginal disc; Tumor suppressor; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

### Experimental condition

Differentiation process; Hypha; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

### Eye

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

### Fibronectin V-region

*Xenopus* development; adhesion (Danker, K. (44) 155)

### Floor plate

Dorsal lip; HNF-3 $\alpha$ ; HNF-3 $\beta$ ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)



**fused**

Cell interaction; *Drosophila*; Protein kinase; Segment polarity gene (Therond, P. (44) 65)

**Gastrulation**

Sea urchin; Growth factor; LpS1 gene regulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

**ets Gene family**

Proto-oncogene; Transcription factor; In situ hybridization (Meyer, D. (44) 109)

**Growth factor**

Sea urchin; Gastrulation; LpS1 gene regulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

**HNF-3 $\alpha$** 

Dorsal lip; Floor plate; HNF-3 $\beta$ ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

**HNF-3 $\beta$** 

Dorsal lip; Floor plate; HNF-3 $\alpha$ ; Node; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

**Homeobox**

Murine homolog of *HOX 11*; In situ hybridization; *Tlx-1*; T-cell leukemia (Raju, K. (44) 51)

**Homeobox gene**

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

**Homeobox, Transcriptional regulation**

Retinoic acid receptor; Retinoid X receptor (Moroni, M.C. (44) 139)

**20-Hydroxyecdysone**

Ecdysone response element; *D. melanogaster*; Larval fat body (Laval, M. (44) 123)

**Hypha**

Differentiation process; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

**Imaginal disc**

*Drosophila*; Mammal; Tumor suppressor; *expanded* gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

**In situ hybridization**

Murine homolog of *HOX 11*; *Tlx-1*; Homeobox; T-cell leukemia (Raju, K. (44) 51)

Proto-oncogene; *ets* Gene family; Transcription factor (Meyer, D. (44) 109)

**Larval fat body**

20-Hydroxyecdysone; Ecdysone response element; *D. melanogaster* (Laval, M. (44) 123)

**LpS1 gene regulation**

Sea urchin; Growth factor; Gastrulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

**Mammal**

*Drosophila*; Imaginal disc; Tumor suppressor; *expanded* gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

**Morphogen**

Differentiation process; Hypha; Experimental condition; Computer simulation; Cellular automaton; *Neurospora crassa*; Cyclic AMP (Deutsch, A. (44) 17)

**Mouse mutant**

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

**Murine homolog of *HOX 11***

In situ hybridization; *Tlx-1*; Homeobox; T-cell leukemia (Raju, K. (44) 51)

**Muscle**

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas (Oliver, G. (44) 3)

**Neuroblast**

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Homeobox gene; Pancreas; Muscle (Oliver, G. (44) 3)

**Neurofibromatosis type 2**

*Drosophila*; Mammal; Imaginal disc; Tumor suppressor; *expanded* gene (Boedigheimer, M. (44) 83)

***Neurospora crassa***

Differentiation process; Hypha; Experimental condition; Computer simulation; Cellular automaton; Cyclic AMP; Morphogen (Deutsch, A. (44) 17)

**Node**

Dorsal lip; Floor plate; HNF-3 $\alpha$ ; HNF-3 $\beta$ ; Notochord; Organizer (Ruiz i Altaba, A. (44) 91)

**Notochord**

Dorsal lip; Floor plate; HNF-3 $\alpha$ ; HNF-3 $\beta$ ; Node; Organizer (Ruiz i Altaba, A. (44) 91)

Pax-1; Pax-3; T gene; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

**Organizer**

Dorsal lip; Floor plate; HNF-3 $\alpha$ ; HNF-3 $\beta$ ; Node; Notochord (Ruiz i Altaba, A. (44) 91)

**Pancreas**

Prox 1; *Prospero*; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Muscle (Oliver, G. (44) 3)

**Pax-1**

Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

**Pax-3**

Pax-1; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

**Pintail**

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Truncate (Dietrich, S. (44) 189)

**Prospero**

Prox 1; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

**Protein kinase**

Cell interaction; *Drosophila*; *fused*; Segment polarity gene (Therond, P. (44) 65)

**Protein targeting**

Epithelia; Apical-basal polarity; EGF-like protein; *Drosophila* (Wodarz, A. (44) 175)

**Proto-oncogene**

*ets* Gene family; Transcription factor; In situ hybridization (Meyer, D. (44) 109)

**Prox 1**

*Prospero*; Central nervous system; *Drosophila*; Eye; Homeobox gene; Neuroblast; Pancreas; Muscle (Oliver, G. (44) 3)

**Retinoic acid**

*Xenopus*; Brain; *XIPOU 1* (Agarwal, V.R. (44) 167)

**Retinoic acid receptor**

Retinoid X receptor; Homeobox, Transcriptional regulation (Moroni, M.C. (44) 139)

**Retinoid X receptor**

Retinoic acid receptor; Homeobox, Transcriptional regulation (Moroni, M.C. (44) 139)

**Sea urchin**

Growth factor; Gastrulation; LpS1 gene regulation; Spiculogenesis (Ramachandran, R.K. (44) 33)

**Segment polarity gene**

Cell interaction; *Drosophila*; *fused*; Protein kinase (Therond, P. (44) 65)

**Somite**

Pax-1; Pax-3; T gene; Notochord; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

**Spiculogenesis**

Sea urchin; Growth factor; Gastrulation; LpS1 gene regulation (Ramachandran, R.K. (44) 33)

**T-cell leukemia**

Murine homolog of *HOX 11*; In situ hybridization; *Tlx-1*; Homeobox (Raju, K. (44) 51)

**T gene**

Pax-1; Pax-3; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail; Truncate (Dietrich, S. (44) 189)

***Tlx-1***

Murine homolog of *HOX 11*; In situ hybridization; Homeobox; T-cell leukemia (Raju, K. (44) 51)

**Transcription factor**

Proto-oncogene; *ets* Gene family; In situ hybridization (Meyer, D. (44) 109)

**Truncate**

Pax-1; Pax-3; T gene; Notochord; Somite; Dorsoventral patterning; Mouse mutant; Brachyury curtailed; Danforth's short tail; Pintail (Dietrich, S. (44) 189)

**Tumor suppressor**

*Drosophila*; Mammal; Imaginal disc; *expanded* gene; Neurofibromatosis type 2 (Boedigheimer, M. (44) 83)

***Xenopus***

Retinoic acid; Brain; *XIPOU 1* (Agarwal, V.R. (44) 167)

***Xenopus* development**

Fibronectin V-region; adhesion (Danker, K. (44) 155)

***XIPOU 1***

Retinoic acid; *Xenopus*; Brain (Agarwal, V.R. (44) 167)

